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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

|                                          |                      |                    |
|------------------------------------------|----------------------|--------------------|
| Application Number                       | 10/661,381           |                    |
|                                          | Filing Date          | September 12, 2003 |
|                                          | First Named Inventor | Dubrow             |
|                                          | Art Unit             | 1733               |
|                                          | Examiner Name        |                    |
| Attorney Docket Number                   | 01-002810            |                    |
| Total Number of Pages in This Submission |                      |                    |

### ENCLOSURES (Check all that apply)

|                                                                              |                                                                                                    |                                                                                         |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <input type="checkbox"/> Fee Transmittal Form                                | <input type="checkbox"/> Drawing(s)                                                                | <input type="checkbox"/> After Allowance communication to Technology Center (TC)        |
| <input type="checkbox"/> Fee Attached                                        | <input type="checkbox"/> Licensing-related Papers                                                  | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input type="checkbox"/> Amendment/Reply                                     | <input type="checkbox"/> Petition                                                                  | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final                                         | <input type="checkbox"/> Petition to Convert to a Provisional Application                          | <input type="checkbox"/> Proprietary Information                                        |
| <input type="checkbox"/> Affidavits/declaration(s)                           | <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Status Letter                                                  |
| <input type="checkbox"/> Extension of Time Request                           | <input type="checkbox"/> Terminal Disclaimer                                                       | <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):         |
| <input type="checkbox"/> Express Abandonment Request                         | <input type="checkbox"/> Request for Refund                                                        | PTO 1449 (3 pages), 25 references, return receipt postcard.                             |
| <input checked="" type="checkbox"/> Information Disclosure Statement         | <input type="checkbox"/> CD, Number of CD(s) _____                                                 |                                                                                         |
| <input type="checkbox"/> Certified Copy of Priority Document(s)              | Remarks                                                                                            |                                                                                         |
| <input type="checkbox"/> Response to Missing Parts/Incomplete Application    |                                                                                                    |                                                                                         |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 |                                                                                                    |                                                                                         |

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

|                         |                                   |
|-------------------------|-----------------------------------|
| Firm or Individual name | Andrew L. Filler, Reg. No. 44,107 |
| Signature               |                                   |
| Date                    | October 29, 2004                  |

### CERTIFICATE OF TRANSMISSION/MAILING

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| Typed or printed name | Michelle Chan |      |                  |
| Signature             |               | Date | October 29, 2004 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|              |   |                                                                                      |                   |      |
|--------------|---|--------------------------------------------------------------------------------------|-------------------|------|
| Appln. No.   | : | 10/661,381                                                                           | Confirmation No.: | 6710 |
| Applicant    | : | Robert S. Dubrow                                                                     |                   |      |
| Filed        | : | September 12, 2003                                                                   |                   |      |
| TC/A.U.      | : | 1733                                                                                 |                   |      |
| Examiner     | : |                                                                                      |                   |      |
|              |   |                                                                                      |                   |      |
| Docket No.   | : | 01-002810                                                                            |                   |      |
| Customer No. | : | 33140                                                                                |                   |      |
| Title        | : | Structures, systems and methods for joining articles and materials and uses therefor |                   |      |

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

The references cited on the attached form PTO-1449 are being called to the attention of the Examiner. Pursuant to 1276 OG 55 dated August 5, 2003, Applicants are not providing copies of US patents and/or publications as this application was filed after June 30, 2003. A copy of any non-US patent or publication reference cited is enclosed.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is made that a search has been conducted or that this statement encompasses all possible relevant information.

Appl. No. 10/661,381  
Robert S. Dubrow  
Information Disclosure Statement  
Filed October 29, 2004

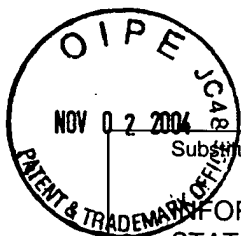
Applicants believe that no fee is required for submission of this statement, since it is being submitted within three months of the filing date or prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to charge such fee to Deposit Account No. 50-2336. Please charge any additional fees or credit any overpayment to the above-noted deposit account.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Andrew L. Filler", with a stylized flourish at the end.

Andrew L. Filler  
Reg. No. 44,107

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|                                                                                           |  |                      |                        |           |
|-------------------------------------------------------------------------------------------|--|----------------------|------------------------|-----------|
| Substitute for form 1449A/PTO                                                             |  | Complete if Known    |                        |           |
| INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT<br><br>(use as many sheets as necessary) |  | Application Number   | 10/661,381             |           |
|                                                                                           |  | Filing Date          | September 12, 2003     |           |
|                                                                                           |  | First Named Inventor | Dubrow                 |           |
|                                                                                           |  | Art Unit             | 1733                   |           |
|                                                                                           |  | Examiner Name        |                        |           |
| Sheet                                                                                     |  | of                   | Attorney Docket Number | 01-002810 |

| U.S. PATENT DOCUMENTS |             |                               |                                |                                                    |                                                                                 |
|-----------------------|-------------|-------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
| Examiner<br>Initials  | Cite<br>No. | Document No.                  | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant<br>of Cited Document | Pages, Columns, lines, Where<br>Relevant Passages or Relevant<br>Figures Appeal |
|                       |             | Number - Kind Code (if known) |                                |                                                    |                                                                                 |
|                       | AA          | US-5,976,957                  | 11-021999                      | Westwater et al.                                   |                                                                                 |
|                       | AB          | US-6,106,913                  | 08-22-2000                     | Scardino et al.                                    |                                                                                 |
|                       | AC          | US-6,130,143                  | 10-10-2000                     | Westwater et al.                                   |                                                                                 |
|                       | AD          | US-6,265,333                  | 07-24-2001                     | Dzenis et al.                                      |                                                                                 |
|                       | AE          | US-6,268,041                  | 07-31-2001                     | Goldstein                                          |                                                                                 |
|                       | AF          | US-6,270,347                  | 08-07-2001                     | Webster et al.                                     |                                                                                 |
|                       | AG          | US-6,313,015                  | 11-06-2001                     | Lee et al.                                         |                                                                                 |
|                       | AH          | US-6,322,895                  | 11-27-2001                     | Canham                                             |                                                                                 |
|                       | AI          | US-6,359,288                  | 03-19-2002                     | Ying et al.                                        |                                                                                 |
|                       | AJ          | US-6,666,214                  | 12-23-2003                     | Canham                                             |                                                                                 |
|                       | AK          | US-6,670,179                  | 12-30-2003                     | Mattson et al.                                     |                                                                                 |
|                       | AL          | US-6,720,240                  | 04-13-2004                     | Gole et al.                                        |                                                                                 |
|                       | AM          | US-20020037383                | 03-28-2002                     | Spillman et al.                                    |                                                                                 |
|                       | AN          | US-20020049495                | 04-25-2002                     | Kutryk et al.                                      |                                                                                 |
|                       | AO          | US-20020090725                | 07-11-2002                     | Simpson et al.                                     |                                                                                 |
|                       | AP          | US-20020130311                | 09-19-2002                     | Lieber et al.                                      |                                                                                 |
|                       | AQ          | US-20020167118                | 11-14-2002                     | Billiet et al.                                     |                                                                                 |
|                       | AR          | US-20030032892                | 02-13-2003                     | Erlach et al.                                      |                                                                                 |
|                       | AS          | US-20030059742                | 03-27-2003                     | Webster et al.                                     |                                                                                 |
|                       | AT          | US-20030065355                | 04-03-2003                     | Weber                                              |                                                                                 |
|                       | AU          | US-20030089899                | 05-15-2003                     | Lieber et al.                                      |                                                                                 |
|                       | AV          | US-20030093107                | 05-15-2003                     | Parsonage et al.                                   |                                                                                 |
|                       | AW          | US-20030195611                | 10-16-2003                     | Greenhalgh et al.                                  |                                                                                 |
|                       | AX          | US-20030229393                | 12-11-2003                     | Kutryk et al.                                      |                                                                                 |
|                       | AY          | US-20040009598                | 01-15-2004                     | Hench et al.                                       |                                                                                 |
|                       | AZ          | US-20040052867                | 03-18-2004                     | Canham                                             |                                                                                 |
|                       | BA          | US-20040115239                | 06-17-2004                     | Shastri et al.                                     |                                                                                 |
| Examiner<br>Signature |             |                               |                                | Date<br>Considered                                 |                                                                                 |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

|                                                                                                                                                      |  |                          |                           |                        |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|---------------------------|------------------------|------------------|
| <b>Substitute for form 1449A/PTO</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(use as many sheets as necessary)</i> |  | <b>Complete if Known</b> |                           |                        |                  |
|                                                                                                                                                      |  | Application Number       | <b>10/661,381</b>         |                        |                  |
|                                                                                                                                                      |  | Filing Date              | <b>September 12, 2003</b> |                        |                  |
|                                                                                                                                                      |  | First Named Inventor     | <b>Dubrow</b>             |                        |                  |
|                                                                                                                                                      |  | Art Unit                 | <b>1733</b>               |                        |                  |
| Sheet                                                                                                                                                |  | of                       |                           | Examiner Name          |                  |
|                                                                                                                                                      |  |                          |                           | Attorney Docket Number | <b>01-002810</b> |

| FOREIGN PATENT DOCUMENTS |             |                                                 |                                |                                                    |                                                                                 |   |
|--------------------------|-------------|-------------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|---|
| Examiner<br>Initials     | Cite<br>No. | Foreign Patent Document                         | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant<br>of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | T |
|                          |             | Country Code - Number - Kind Code (if<br>known) |                                |                                                    |                                                                                 |   |
|                          | BB          | WO-9940812                                      | 08-19-1999                     | Michigan State<br>University                       |                                                                                 |   |
|                          | BC          | WO-0149776                                      | 07-12-2001                     | UC Regents                                         |                                                                                 |   |
|                          | BD          | WO-03095190                                     | 11-20-2003                     | UC Regents                                         |                                                                                 |   |
|                          | BE          | WO-03097702                                     | 11-27-2003                     | Lewis and Clark<br>College                         |                                                                                 |   |
|                          | BF          | WO-03099951                                     | 12-04-2003                     | Max-Planck                                         |                                                                                 |   |
|                          | BG          | WO-03102099                                     | 12-11-2003                     | DuPont                                             |                                                                                 |   |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |             |                                                                                                                                                                                                                                                                    |   |
|---------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Examiner<br>Initials                              | Cite<br>No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal,<br>serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T |
|                                                   | BH          | AUTUMN, K. et al., "Adhesive force of a single gecko foot-hair" Nature (2000) 405:681-685                                                                                                                                                                          |   |
|                                                   | BI          | CHEN, I.W. et al., "Sintering dense nanocrystalline ceramics without final-stage grain growth" Nature (2000) 404(6774):168-171                                                                                                                                     |   |
|                                                   | BJ          | CHOI, H. et al., "Surface-modified silica colloid for diagnostic imaging" J. Colloid Interface Sci (2003) 258(2):435-437                                                                                                                                           |   |
|                                                   | BK          | CUI et al., "Functional nanoscale electronic devices assembled using silicon nanowire building blocks" Science (2001) 291:851-853                                                                                                                                  |   |
|                                                   | BL          | CUI et al., "Nanowire nanosensors for highly sensitive and selective detection of biological and chemical species" Science (2001) 293:1289-1292                                                                                                                    |   |
|                                                   | BM          | DAVIS, D.H. et al., "Immobilization of RGD to <111> silicon surfaces for enhanced cell adhesion and proliferation" Biomaterials (2002) 23:4019-4027                                                                                                                |   |
|                                                   | BN          | DUAN et al., "Single-nanowire electrically driven lasers" Nature (2003) 421:241-245                                                                                                                                                                                |   |
|                                                   | BO          | GEIM, A.K. et al., "Microfabricated adhesive mimicking gecko foot-hair" Nature Materials (2003) 2:461-463                                                                                                                                                          |   |
|                                                   | BP          | GREENE, L.E. et al., "Low-Temperature Wafer-Scale Production of ZnO Nanowire Arrays" Angew. Chem. Int. Ed. (2003) 42:3031-3034                                                                                                                                     |   |
|                                                   | BQ          | HANEKAMP C. et al., "Randomized comparison of balloon angioplasty versus silicon carbon-coated stent implantation for de novo lesions in small coronary arteries" Am. J. Cardiol. (2004) 93(10):1233-1237                                                          |   |

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

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| Examiner Name                                                                                                                                 |  |                          |                           |                  |
| Sheet                                                                                                                                         |  | of                       | Attorney Docket Number    | <b>01-002810</b> |

|  |    |                                                                                                                                                                                                |  |
|--|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | BR | HUANG, et al., "Integrated optoelectronics assembled from semiconductor nanowires" Abstracts of Papers of the ACS (2002) 224:U308                                                              |  |
|  | BS | PRICE, R.L. et al., "Nanometer surface roughness increases select osteoblast adhesion on carbon nanofiber compacts" J. Biomed. Mat. Res. (2004) 70A(1):129-138                                 |  |
|  | BT | SHASTRI, V.P., "Non-degradable biocompatible polymers in medicine: past, present and future" Curr Pharm. Biotechnol. (2003) 4(5):331-337                                                       |  |
|  | BU | SILVA, G.A. et al., "Selective differentiation of neural progenitor cells by high-epitope density nanofibers" Science (2004) 303:1352-1355                                                     |  |
|  | BV | WEBSTER, T.J. et al., "Nano-biotechnology: carbon nanofibres as improved neural and orthopaedic implants" Nanotechnology (2004) 15:48-54                                                       |  |
|  | BW | WEBSTER, T.J. et al., "Increased osteoblast adhesion on nanophase metals: Ti, Ti6Al4V, and CoCrMo" Biomaterials (2004) 25:4731-4739                                                            |  |
|  | BX | XU, H. et al., "Room-temperature preparation and characterization of poly(ethylene glycol)-coated silica nanoparticles for biomedical applications" J. Biomed. Mat. Res. (2003) 66A(4):870-879 |  |
|  | BY | XU, H. et al., "Strong and bioactive composites containing nano-silica-fused whiskers for bone repair" Biomaterials (2004) 25:4615-4626                                                        |  |
|  | BZ | ZHOU et al., "Silicon nanowires as chemical sensors" Chem. Phys. Lett. (2003) 369:220-224                                                                                                      |  |

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
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